High Power Test Areas

Meson & New Muon Test Facility Status



Paul C. Czarapata 11/14/05

Why Meson

Advantages

- > Available cryogenics
- > Available space, including a long straight beam line
- > Available power

Disadvantages

- > We had to clean up the Meson East area (old fixed target experiment) and do some infrastructure maintenance.
- > The Meson area had the remnants of E-605 in the MEast beam line
- > The MPolarized beam line had an old target station with tons of steel shielding and many old magnets and miscellaneous left over equipment.

Orientation



What were we facing?



And a Bone yard



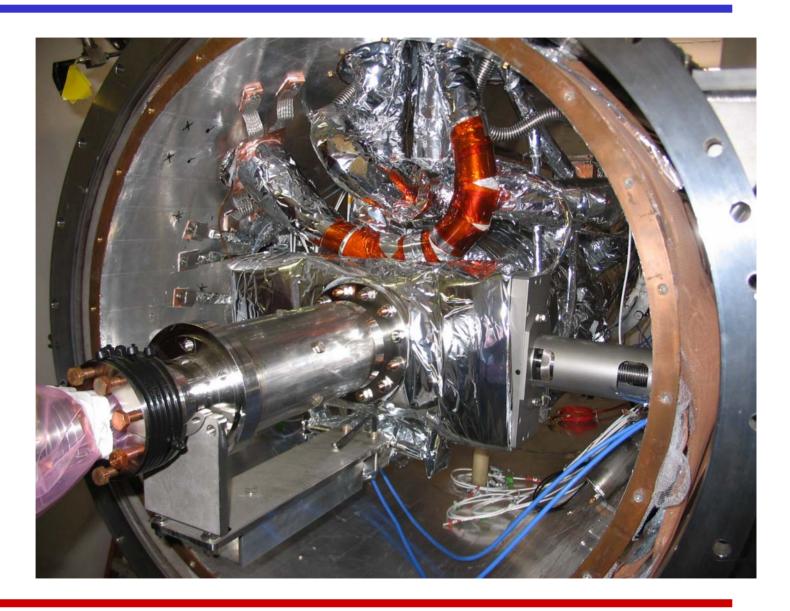
Meson Now



Cap. Cavity II Cave



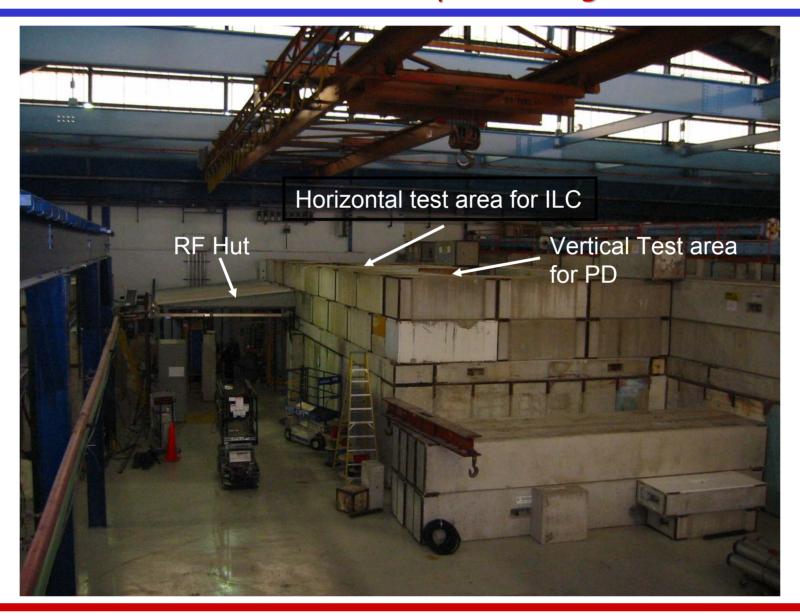
Inside of CCII



Cryo is cold



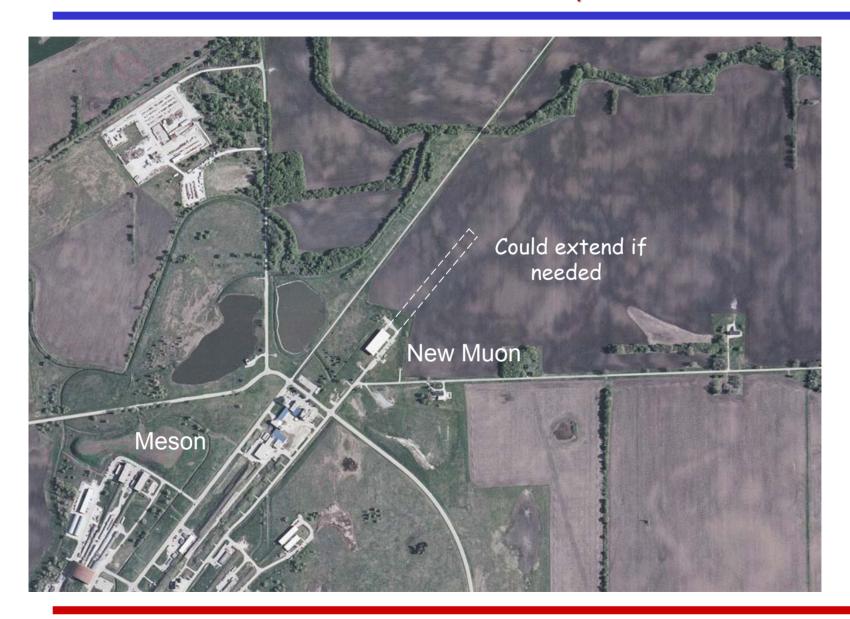
RF Hut & Power proceeding



Chilled water skid



New Muon & Vicinity



NM-ILCTA Chicago Cyclotron Magnet



Where ILC module(s) goes!



Vacuum System for Meson 1.8K°



Vacuum system for 1.8K°



Summary

- Started about one year ago
 - Original goal was to get the area <u>ready</u> for the Capture Cavity by "World Series Time" this year
 - The White Sox did a great job of shortening our available time! GO SOX!
 - > AREA WAS READY on time.
- Next phase to get CC II cold and powered.
 - The Capture Cavity will be powered with a 200KW 1.3GHz Klystron.
 - Klystron, Modulator, and wave guide in place.
 - · LLRF has been working at the AO Photo Injector.
- Cavity should be cold and powered in mid-December.

From the ashes



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